

ABSTRACT

A mobile terminal apparatus that considers intervals between key input operations when characters are input, and, when there is an interval greater than a certain period of time between operations, or when a shift is made to different character input, reads aloud the voice corresponding to the stored input character and reads aloud only the character the user needs to check. In this apparatus, when other characters are continuously input by the same key input within a predetermined time, character selection fixing section 201 updates the stored content in present candidate storage section 202, outputs the updated candidate character to display control section 204 as a displaying character and displays the updated candidate character on liquid crystal display section 103. At this time, the voice corresponding to the displaying candidate character is not reproduced. When the predetermined time passes without key input, character selection fixing section 201 reads aloud the present candidate character stored in present candidate storage section 202, outputs the present candidate character to reading determination section 206 as a fixed character, and voice reproduction section 105 reproduces the voice corresponding to the fixed character.

FIG.2

104 KEY INPUT SECTION
201 CHARACTER SELECTION FIXING SECTION
 FIXED
5 203 INPUT CHARACTER STRING STORAGE SECTION
204 DISPLAY CONTROL SECTION
103 LIQUID CRYSTAL DISPLAY SECTION
 INPUTTING CHARACTER
 UPDATED
10 202 PRESENT CANDIDATE STORAGE SECTION
 DISPLAYING CHARACTER
205 TIMER SECTION
206 READING DETERMINATION SECTION
207 VOICE SYNTHESIS SECTION
15 105 VOICE REPRODUCTION SECTION

FIG.3

S301 WAIT FOR INPUT
 KEY INPUT/DISPLAY CANDIDATE CHARACTER
20 S302 DISPLAY CANDIDATE
 LESS THAN 400MSEC PASS
 NO KEY INPUT & 400MSEC PASS/READ ALOUD CANDIDATE CHARACTER
 S303 DISPLAY CANDIDATE
 MORE THAN 400MSEC PASS
25 ANOTHER KEY INPUT/FIX AND READ ALOUD PRESENT CANDIDATE
 DISPLAY NEW CANDIDATE CHARACTER
 SAME KEY INPUT/DISPLAY NEXT CANDIDATE CHARACTER

FIG. 4

PRESS KEY 1

WITHIN 400MSEC

5 BEYOND 400MSEC

READ ALOUD CANDIDATE CHARACTER

LIQUID CRYSTAL DISPLAY

FIG. 5

10 PRESS KEY 1

WITHIN 400MSEC

BEYOND 400MSEC

LIQUID CRYSTAL DISPLAY

15 FIG. 6

PRESS KEY 1

WITHIN 400MSEC

PRESS KEY 2 → "VV" IS FIXED

LIQUID CRYSTAL DISPLAY

20